

NAKAGAWA --
Application No. 10/726,660
Client/Matter: 007324-0307160

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A component mounting circuit board comprising:
a circuit pattern including a plurality of electrically conductive plates, ~~the circuit pattern having two opposite sides;~~
an inner electrical component electrically connected to ~~one side of the circuit pattern;~~
and
a resin molded section made of a resin by way of molding so as to cover the circuit pattern and the inner electrical component, the resin molded section having an opening allowing an outer electrical component located outside the resin molded section to be connected to the circuit pattern ~~therethrough;~~ therethrough after formation of the resin molded section, so that the inner and outer electrical components are interconnectable to each other via the circuit pattern;
wherein the inner electrical component includes a rectifier circuit having input terminals and output terminals and an active element connected between the output terminals of the rectifier circuit and controlled so as to be switched;
wherein the outer electrical component includes a resonance capacitor connected between the output terminals of the rectifier circuit; and
wherein the circuit pattern includes as the electrically conductive plates:
a plurality of input copper plates supplying AC power to one of input terminals and formed with terminals extending through a first side of the resin molded section and connected to an AC power supply outside the resin molded section;
a plurality of input copper plates supplying AC power to the other of the input terminals and formed with terminals extending through the first side of the resin molded section and connected to the AC power supply outside the resin molded section, and
a plurality of output copper plates adapted to connect the active element or the resonance capacitor to a primary coil of an external step-up transformer and formed with terminals extending through a second side of the resin molded section opposed to the first side and connected to the primary coil of the step-up transformer outside the resin molded

NAKAGAWA --
Application No. 10/726,660
Client/Matter. 007324-0307160

~~section wherein the circuit pattern includes a portion corresponding to the other side of the inner electrical component and is provided with a thicker metal portion thicker than a remaining portion of said other side of the inner electrical component; and wherein the thicker metal portion is provided with an exposed portion exposed outside the resin molded section on the other side of the inner electrical component.~~

2-15. (Previously Canceled)

16. (Cancelled)

17. (New) The component mounting circuit board according to claim 1, wherein the resin molded section is made of an epoxy resin.

18. (New) The component mounting circuit board according to claim 1, wherein the circuit pattern includes a portion corresponding to the inner electrical component and provided with a thicker portion thicker than a remaining portion.

19. (New) The component mounting circuit board according to claim 1, wherein the circuit pattern includes a portion corresponding to the inner electrical component and provided with an exposed portion exposed outside the resin molded section.

20. (New) The component mounting circuit board according to claim 1, further comprising a metal member embedded in the resin molded section so as to be located to correspond to a portion of the inner electrical component and electrically insulated from the circuit pattern, the metal member being provided with an exposed portion exposed outside the resin molded section.

21. (New) The component mounting circuit board according to claim 1, further comprising a metal member embedded in the resin molded section so as to be located to correspond to a portion of the inner electrical component, the metal member being discrete from the circuit pattern.

NAKAGAWA --
Application No. 10/726,660
Client/Matter: 007324-0307160

22. (New) The component mounting circuit board according to claim 1, further comprising a support provided on the resin molded section to support the outer electrical component.